VIRTUAL EQUAL ACCESS SERVICE

CHECK SHEET

Title page 1 and Pages 1 to 170 are effective as of the date shown. Original and revised pages as named below contain all changes from the original tariff that are in effect on the date hereof.

Page	Number of Revision Except as Indicated	Page	Number of Revision Except as Indicated	Page	Number of Revision Except as Indicated
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2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Claims and Demands for Damages (Cont'd)

(D) The customer shall defend, indemnify and save harmless KNAD from and against any suits, claims, losses or damages, including punitive damages, attorneys' fees and court costs by the customer or third parties arising out of any act or omission of the customer in the course of using services provided under this tariff.

2.3.12 Coordination with Respect to Network Contingencies

The customer shall, in cooperation with KNAD, coordinate in planning the actions to be taken to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.3.13 Jurisdictional Report Requirements

(A) Jurisdictional Reports

(1)(a) When a customer orders Feature Groups(T)(x) A or B Switched Access Service, the Customer shall state in its order the projected interstate percentage for interstate usage for each Feature Groups A or B Switched Access Service group ordered. The term group shall be construed to mean single lines or trunks as well. If the customer discontinues some but not all of the Feature Group B Switched Access Service in a group,it shall provide the projected interstate percentage for such services which are remaining.

(b) Pursuant to Federal Communications Commission Order FCC 85-145 adopted April 16, 1985, Feature Group B interstate usage is to be developed

as though every call that enters a customer network at a point within the same state as that in which the (T)(x)

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2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1)(b)(Cont'd) (T)(x)

called station (as designated by the called station telephone number) is situated is an intrastate communication and every call for which the point of entry is in a state other than that where the called station (as designated by the called station telephone number) is situated is an interstate communication.

(T)(x)

(c) The projected interstate percentages will be used by KNAD to apportion the usage between interstate and intrastate until a revised report is received as set forth in (7) following.

(2) All single Feature Groups A or B Switched Access Service usage and charges will be apportioned by KNAD between interstate and intrastate. The projected interstate percentage reported as set forth in 1(a) and 1(b) preceding will be used to make such apportionment. (T)(x)

(3) For multiline hunt group arrangements where either the interstate or the intrastate charges are based on measured usage, the interstate Feature Groups A or B Switched Access Service(s) information reported as set forth in (1) preceding will be used to determine the charges as follows:

For all groups the number of access minutes for a group will be multiplied by the

projected interstate percentage to develop the interstate access minutes. The number of access minutes for the group minus the (T)(x)

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2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.13 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(3) (Cont'd) (T)(x)

developed interstate access minutes for the group will be the developed intrastate access minutes. (T)(x)

(4) When a customer orders Feature Group D Switched Access Service, KNAD, where the jurisdiction can be determined from the call detail, will, unless the customer provides the projected interstate percentage for interstate usage for each end office group in its order, determine the projected interstate percentage as follows:

For originating access minutes, the projected interstate percentage will be developed on a monthly basis by end office when the Feature Group D Switched Access Service access minutes are measured by dividing the measured interstate originating access minutes (the access minutes where the calling number is in one state and the called number is in another state) by the total originating access minutes when the call detail is adequate to determine the appropriate jurisdiction. For terminating access minutes, the data used by KNAD to develop the projected interstate percentage for originating access minutes will be used to develop projected interstate percentage for such terminating access minutes. When originating call details are insufficient to determine the jurisdiction for the call, the customer shall supply the projected interstate percentage or authorize KNAD to use the KNAD developed percentage.

This percentage shall be used by KNAD as the interstate percentage for such call detail. KNAD will designate the number obtained by subtracting the projected interstate

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5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order

An Access Order is used by KNAD to provide to a customer Access Service as follows:

- Switched Access Services as set forth in Section 6. following.
- Other Services as set forth in Section 5.1.2 preceding.

When placing an order for Access Service, the customer shall provided, at the minimum, the following information:

- For Feature Group A Switched Access Service, the customer shall specify the number of lines and the first point of switching (i.e., dial tone office), the Local Transport options and Local Switching options desired. In addition, the customer shall specify whether the ordered line(s) is for FX/ONAL service or MTS/WATS-type service. If the customer specifies MTS/WATS-type service, it shall also specify which lines are to be arranged in multiline hunt group arrangements and which lines are to be provided as single lines.

- For Feature Group B Switched Access Service, the customer shall specify the number of busy hour minutes of capacity (BHMC) or trunks needed to carry traffic from the end office of a Routing Exchange Carrier set forth in Section 9. following to KNAD's central access tandem by type of BHMC and Local Transport options and Local Switching options desired. This information is used to determine the number of transmission paths as set forth in 6.5.5 following. The basic traffic type must also be specified using the same categories as described in 6.1.1 following, to enable efficient provisioning and billing functions. (T)(x)

- For Feature Group D Switched Access Service, the customer shall specify the number of busy hour minutes of capacity (BHMC) or trunks needed to carry traffic from the end office of a Routing

Exchange carrier set forth in Section 9. following
to KNAD's central access tandem by type of BHMC

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5. Ordering Options for Switched Access Service (Cont'd)

5.4 Access Orders for Services Provided by KNAD and Exchange Telephone Companies (Cont'd)

(A) (Cont'd)

(1) When Switched Access Services are ordered to KNAD's central access tandem, the customer will place the order with KNAD. The customer must also supply a copy of the order to each Exchange Telephone Company involved in providing the service and subtending KNAD's central access tandem.

(2) When Switched Access Services are ordered to a point of termination listed in Section 8. following other than KNAD's central access tandem, the customer will place the order as follows:

(a) For Feature Group B Switched Access Service, the customer must place the order with KNAD. The customer must also supply a copy of the order to each Exchange Telephone Company involved in providing the service and subtending KNAD's central access tandem. (T)(x)

(b) For Feature Groups A and D Switched Access Service, the customer must place the order with the Exchange Telephone Company in whose territory the end office is located. The customer must also supply a copy of the order to KNAD.

(3) For the Switched Access Services ordered set forth in (1) and (2) preceding, the customer must also supply a copy of the order to the Exchange Telephone Company in whose operating territory a customer premises is located and any other Exchange Telephone Company involved in providing the service.

(4) For initiation, additions, changes or deletions to the Interim NXX Translation code(s), the customer must place an order with the carrier who provides the Interim NXX Translation. The customer must also provide a copy of the order to the Exchange

Telephone Companies subtending the Interim NXX Translation office.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

(B) Feature Group A (FGA)

FGA Access, which is available to all customers, provides line side access to KNAD's end office switches with an associated seven digit local telephone number for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's Interstate Service or a customer - provided inter-state communications capability. The customer must specify the Interexchange Carrier to which the FGA service is connected or, in the alternative, specify the means by which the FGA access communications is transported to another state.

(C) Feature Group B (FGB) (T)(x)

FGB Access, which is available to all customers, provides trunk side access at a customer's point of termination with an associated uniform 950-0XXX or 950-1XXX access code for the customer's use in originating and terminating communications. A more detailed description of FGB Access is provided in 6.2.2 following. (T)(x)

(D) Feature Group D (FGD)

FGD Access, which is available to all customers, provides trunk side access at a customer's point of interconnection with an associated uniform 10XXX access code for the customer's use in originating and terminating communications unless a Routing Exchange Carrier's end office is unable to provide a uniform 10XXX code.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Switched Access (Cont'd)

(2) Nonchargeable Optional Features (Cont'd)

(a) Supervisory Signaling (Cont'd)

version is required by the customer to meet its signaling capability, the customer may order an optional supervisory signaling arrangement for each transmission path provided as follows:

Interface Group 6 may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in KNAD's central access tandem. Generally, such signaling is available only where KNAD's central access tandem provides an analog, i.e., non-digital, interface and a a portion of the facility provided by the customer between KNAD's central access tandem and the customer's premises is analog.

(b) Customer Specified Entry Switch Receive Level (T)(x)

This feature allows the customer to specify the receive transmission level at KNAD's central access tandem. The range of

transmission levels which may be specified is described in Technical Reference TR-NWT-000334. This feature is available for Feature Group B. (T)(x)

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6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(D) (Cont'd)

in 6.1.6 preceding which are included with the installation of service and as ongoing routine testing, Additional Cooperative Acceptance Testing and Additional Manual Testing are available as set forth in 13.3.5 following.

6.2.2 Feature Group B (FGB) (T)(x)

(A) Description

(1) FGB is provided as trunk side switching through the use of access tandem switch trunk equipment at Company's central access tandem. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.

(2) FGB switching is provided with multi-frequency address signaling in both the originating and terminating directions. Any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by Company will be subject to the ordinary transmission capabilities of the Switched Transport provided.

(3) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-0XXX or 950-1XXX for customers. These uniform access codes will be the assigned access numbers of

all FGB Switched Access Service provided to the customer by Company. (T)(x)

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6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd) (T)(x)

(A) Description (Cont'd)

(4) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of a Routing Exchange carrier set forth in Section 9. following, community information services of an information service provider and other customers' services (by dialing the appropriate digits). Additionally, non-access charges will also be billed for calls from a FGB trunk to another customer's service in accordance with that customer's applicable service rate when Company performs the billing function for that customer.

Calls in the terminating direction will not be completed to 950-0XXX or 950-1XXX access codes, emergency 911 and Service Maintenance 611, local operator assistance (0- and 0+), Directory Assistance (411) or 10XXX access codes. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups A, C and D.

The customer will also be billed access charges by Routing Exchange Carriers and other Exchange Telephone Companies for the provision of access service in their operating territories between a Company premises listed in Section 8. following and the end offices served by Company's central access tandem. In addition, the customer may also be billed access charges by the Routing Exchange Carrier or other Exchange Telephone Companies for the

provision of access services between the customer's premises and a Company premises set forth in Section 8. following. (T)(x)

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6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.5 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(4) (Cont'd)

(DIAL-IT) Network Services. Additionally, non-access charges will also be billed for calls from a FGD trunk to another customer's service in accordance with the customer's applicable service rates when KNAD performs the billing function for that customer.

Calls in the terminating direction will not be completed to 950-OXXX or 950-1XXX access codes, local operator assistance (O- and O+), and 10XXX access codes. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups A, B, or D. (T)(x)

The customer will also be billed access charges by Routing Exchange Carriers and other Exchange Telephone Companies for the provision of access service in their operating territories between a KNAD premises listed in Section 8. following and the end offices served by KNAD's central access tandem.

(5) FGD switching will be arranged to accept calls from the telephone exchange service locations without the need for dialing the 10XXX uniform access code. Each telephone exchange service line may be marked with a code to identify to which 10XXX code its calls will be directed for interLATA service. The access code for FGD switching is a uniform access code of the form 10XXX unless a Routing Exchange Carrier's end office switch is unable to provide a uniform

10XXX code. A single access code will be the assigned number of all FGD access provided to the customer by KNAD. No access code is

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6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.5 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(5) (Cont'd)

required for calls to a customer over FGD Switched Access Service if the end user's telephone exchange service is arranged for presubscription to that customer. Where no access code is required, the number dialed by the end user shall be a seven (7) or ten (10) digit number, where appropriate, for calls in the North American Numbering Plan (NANP). The form of the numbers dialed by the end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA+ NXX-XXXX, 0 or 1+ NPA + NXX - XXXX, and for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

The end offices of the Routing Exchange Carriers that are listed in Attachment 1 are unable to provide a uniform 10XXX code.

(6) When a customer has had FGB access and subsequently replaces the FGB access with FGD access, at the customer's request and where facilities permit, KNAD will, for a period of ninety (90) days, direct calls dialed by the customer's end users using the customer's previous FGB access code to the customer's FGD access service. The customer must be prepared to handle normally dialed FGD calls as well as calls dialed with the FGB access code which require the customer to receive additional address signaling from the end user. Such (T)(x)

calls will be rated as FGD. (T)(x)

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6. Switched Access Service (Cont'd)

6.4 Transmission Specifications (Cont'd)

6.4.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(4) C-Notched Noise

The maximum C-Notched Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBrnCO.

(5) Echo Control

Echo Control is identified as Impedance Balance for FGB and Equal Level Echo Path Loss for FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL). The ERL and SRL also differ by Feature Group. They are greater than or equal to the following: (T)(x)

	Echo Return Loss	Singing Return Loss	
0 For FGB access	8dB	4 dB	(T)(x)

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6. Switched Access Service (Cont'd)

6.5 Obligation of KNAD (Cont'd)

6.5.2 Design and Traffic Routing of Switched Access Service (Cont'd)

Finally, KNAD will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment. Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the KNAD traffic routing plans.

If the customer desires routing or directionality different from that determined by KNAD, KNAD will work cooperatively with the customer in determining the directionality of the service.

6.5.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to KNAD through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and noncompletion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis.

6.5.4 Trunk Group Measurement Reports

Subject to availability, KNAD will make available trunk group data in the form of usage in CCS, peg count and overflow, to the customer based on previously agreed

to intervals.

6.5.5 Determination of Number of Transmission Paths

KNAD will determine the number of Switched Access (T)(x)

Service transmission paths to be provided for the Switched Access Feature Groups ordered. A transmission path is a derived communication path of a frequency (T)(x)

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6. Switched Access Service (Cont'd)

6.5 Obligations of KNAD (Cont'd)

6.5.5 Determination of Number of Transmission Paths (Cont'd)

bandwidth of approximately 300 Hz to 3000 Hz provided over a high speed digital facility between a customer's point of interconnection listed in Section 8. following and KNAD's central access tandem. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in 6.1.1 (F) preceding) for each Feature Group ordered to KNAD's central access tandem. The total busy hour minutes of capacity by type for the Feature Group will be converted to transmission paths using standard traffic engineering methods. For Feature Group B between the customer's premises and the customer's point of interconnection set forth in Section 8. following ordered from an Exchange Telephone Company on a per trunk basis, the customer specifies the number of transmission paths in the order for service to the Exchange Telephone Company. (T)(x)

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6. Switched Access Service (Cont'd)

6.5 Obligations of KNAD (Cont'd)

6.5.7 Design Blocking Probability

KNAD will design the facilities used in the provision of Switched Access Service to meet the blocking probability criteria as set forth in (A) through (D) following.

(A) For Feature Group B, no design blocking criteria apply. (T)(x) (T)(x)

(B) For Feature Group D, the design blocking objective will be no greater than one percent (1%) between the customer's point of inter-connection set forth in Section 8. following and KNAD's central access tandem. Standard traffic engineering methods as set forth in reference document Telecommunications Transmission Engineering - Volume 3 - Networks and Services (Chapters 6-7) will be used by KNAD to determine the number of transmission paths required to achieve this level of blocking.

(C) KNAD will perform routine measurement functions to assure that an adequate number of transmission paths are in service. KNAD will recommend that additional busy hour minutes of capacity be ordered by the customer when additional paths are required to reduce the measured blocking to the design blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following table.

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6. Switched Access Service (Cont'd)

6.7 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Switched Access Service.

6.7.1 Description and Application of Rates and Charges

There are two types of rates and charges that apply to Switched Access Service. These are usage rates and nonrecurring charges.

(A) Usage

Switched Access Usage Rates are rates that apply only when a specific rate element is used. These rates are applied on a per access minute basis. Usage rates are accumulated over a monthly period.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e. installation or change to an existing service). The types of nonrecurring charges that apply for Switched Access Service Are: installation of service, Interim NXX Translation Optional feature, and service rearrangements.

(1) Installation of Service (T)(x)

Nonrecurring charges apply to each Switched Access Service installed. For FGB which is ordered on a per line basis the charge is applied on a per line basis.

For FGD, which is ordered on a Busy Hour Minutes of Capacity or trunk basis,

the charge is applied on a per trunk basis but the charge applies only

when the capacity ordered requires the installation or activation of an additional trunk(s) which is uniquely identified for the sole use of the ordering customer. (T)(x)

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6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.7 Measuring Access Minutes (T)(x)

Customer traffic to and from end offices of the Routing Exchange Carriers set forth in Section 9. following will be measured (i.e., recorded) by KNAD at its central access tandem. Originating and terminating calls will be measured (i.e., recorded) by KNAD to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because KNAD lost or damaged tapes or incurred recording system outages, KNAD will estimate the volume of lost customer access minutes of use based on previously known values. For terminating and for originating calls over FGB and FGD, the measured minutes are the chargeable access minutes. (T)(x)

FGB and FGD access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

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6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.7 Measuring Access Minutes (Cont'd)

(B) Feature Group B Usage Measurement (T)(x)

For originating calls over FGB, usage measurement begins when KNAD's central access tandem receives trunk seizure acknowledgment from the customer's switch indicating the customer is ready to receive the call. (T)(x)

The measurement of originating call usage over FGB ends when KNAD's central access tandem receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's switch, whichever is recognized first by KNAD's central access tandem.

For terminating calls over FGB, the measurement of access minutes begins when the terminating FGB point of switching receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over FGB ends when KNAD's central access tandem receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected or the customer's switch, whichever is recognized first by KNAD's central access tandem.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.2 Additional Labor (Cont'd)

13.2.6 Charges for Additional Labor (Cont'd)

The charges for additional labor are as follows: (T)(x)

Additional Labor Periods	Each Half Hour of Fraction Thereof		
	Installation and Repair Technician	Central Access Tandem Maintenance Technician	
(C) Testing and Maintenance with Exchange Telephone Companies, or Other Labor			
- Basic Time, regularly scheduled working hours, per technician	$16.00	$16.00	
- Overtime, outside of regularly scheduled working hours on a scheduled work day, per technician	$24.00	$24.00	
- Premium Time, outside of scheduled work day, per technician	$32.00	$32.00	(T)(x)

13.3 Miscellaneous Services

13.3.1 Maintenance of Service

(A) When a customer reports a trouble to KNAD for clearance and no trouble is found in KNAD's facilities, the customer shall be responsible for payment of a Maintenance of Service charge for the period of time from when KNAD personnel

are dispatched to the customer point of inter-
connection to when the work is completed

Failure of KNAD personnel to find trouble in

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VIRTUAL EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.1 Switched Transport Interface Groups (Cont'd)

15.1.11 Available Premises Interface Codes

Following is a matrix showing, for each Interface Group, which premises interface codes are available as a function of KNAD's switch supervisory signaling and Feature Group. For explanations of these codes, see the Glossary of Channel Interface Codes in 15.3 following.

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group B	Feature Group D	(T)(x)
1	LO	2LS2	X		
	LO	2LS3	X		
	GO	2GS2	X		
	GO	2GS3	X		
	LO, GO,	2DX3	X		
	LO, GO,	4EA3-E	X		
	LO, GO,	4EA3-M	X		
	LO, GO,	6EB3-E	X		
	LO, GO,	6EB3-M	X		
	RV, EA, EB, EC	2DX3		X	
	RV, EA, EB, EC	4EA3-E		X	
	RV, EA, EB, EC	4EA3-M		X	
	RV, EA, EB, EC	6EB3-E		X	
	RV, EA, EB, EC	6EB3-M		X	
	EA, EB, EC,	6EC3		X	
	RV	2RV3-0		X	
	RV	2RV3-T		X	
2	LO, GO	4SF2	X		
	LO, GO	4SF3	X		
	LO	4LS2	X		
	LO	4LS3	X		
	LO	6LS2	X		
	GO	4GS2	X		
	GO	4GS3	X		
	GO	6GS2	X		
	LO, GO	4DX2	X		
	LO, GO	4DX3	X		
	LO, GO	6EA2-E	X		(T)(x

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15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.1 Local Transport Interface Groups (Cont'd)

15.1.11 Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group B	Feature Group D	(T)(x)
2 (Cont'd)	LO, GO	6EA2-M	X		
	LO, GO	8EB2-E	X		
	LO, GO	8EB2-M	X		
	LO, GO	6EX2-B	X		
	RV, EA, EB, EC	4SF2		X	
	RV, EA, EB, EC	4DX2		X	
	RV, EA, EB, EC	6EA2-E		X	
	RV, EA, EB, EC	6EA2-M		X	
	RV, EA, EB, EC	8EB2-E		X	
	RV, EA, EB, EC	8EB2-M		X	
	EA, EB, EC	8EC2-M		X	
	RV	4RV2-O		X	
	RV	4RV2-T		X	
3	LO, GO	4AH5-B	X		
	RV, EA, EB, EC	4AH5-B		X	
4	LO, GO	4AH6-C	X		
	RV, EA, EB, EC	4AH6-C		X	
5	LO, GO	4AH6-D	X		
	RV, EA, EB, EC	4AH6-D		X	
6	LO, GO	4DS9-15	X		
	LO, GO	4DS9-15L	X		
	RV, EA, EB, EC	4DS9-15		X	
	RV, EA, EB, EC	4DS9-15L		X	
7	LO, GO	4DS9-31	X		
	LO, GO	4DS9-31L	X		
	RV, EA, EB, EC	4DS9-31		X	
	RV, EA, EB, EC	4DS9-31L		X	
8	LO, GO	4DSO-63	X		
	LO, GO	4DSO-63L	X		

RV, EA, EB, EC	4DSO-63	X	
RV, EA, EB, EC	4DSO-63L	X	(T)(x)

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15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.1 Switched Transport Interface Groups (Cont'd)

15.1.11 Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switching Supervisory Signaling	Premises Interface Code	Feature Group B	Feature Group D	(T)(x)
9	LO, GO	4DS6-44	X		
	LO, GO	4DS6-44L	X		
	RV, EA, EB, EC	4DS6-44		X	
	RV, EA, EB, EC	4DS6-44L		X	
10	LO, GO	4DS6-27	X		
	LO, GO	4DS6-27L	X		
	RV, EA, EB, EC	4DS6-27		X	
	RV, EA, EB, EC	4DS6-27L		X	(T)(x)

15.1.12 Supervisory Signaling

- For Interface Groups 1 and 2

  DX Supervisory Signaling,
  E&M Type I Supervisory Signaling,
  E&M Type II Supervisory Signaling, or
  E&M Type III Supervisory Signaling

- For Interface Group 2

  SF Supervisory Signaling, or
  Tandem Supervisory Signaling

- For Interface Groups 3 through 5

  Optional Supervisory Signaling Not Available

- For Interface Groups 6 through 10

  These Interface Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling

is available in Routing Exchange Carriers' central offices. Generally such signaling is available

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15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.2 Transmission Specifications Switched Access Service (Cont'd)

15.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

Loss for FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL) also differ by Feature Group. They are greater than or equal to the following:

	Echo Return Loss	Singing Return Loss	
For FGB Access	8 dB	4 dB	(T)(x)

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of termination shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(C) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is + 3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in

the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

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